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Substitute for form 1449A/PTO

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

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Application Number	09/704,565
Filing Date	November 3, 2000
First Named Inventor	John DIDOMENICO
Group Art Unit	2622-2878
Examiner Name	Unknown
Attorney Docket Number	23439-034-402

11/15/2002

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U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
OG	US1	3,743,426		Steinberg	07-03-1973	
OG	US2	3,973,848		Jowett, et al.	08-10-1976	
OG	US3	4,480,191		Karpowycz	10-30-1984	
OG	US4	4,544,273		Bamdt	10-01-1985	
OG	US5	4,660,873		McGowan, et al.	12-24-1985	
OG	US6	4,663,981		Nelson, et al.	05-12-1987	
OG	US7	4,719,380		Kontani, et al.	01-12-1988	
OG	US8	4,785,981		Schiff, et al.	08-23-1988	
OG	US9	4,818,705		Schneider, et al.	04-04-1989	
OG	US10	4,829,183		McClatchie, et al.	05-09-1989	
OG	US11	4,990,780		Lee, et al.	02-05-1991	
OG	US12	4,999,498		Hunt, et al.	03-12-1991	
OG	US13	5,060,505		Tury, et al.	10-29-1991	
OG	US14	5,098,680		Fournier, et al.	03-31-1992	
OG	US15	5,105,651		Gutmann	04-21-1992	
OG	US16	5,128,257		Carduner, et al.	07-14-1992	
OG	US17	5,184,017		Tury, et al.	02-02-1993	
OG	US18	5,306,913		Noack, et al.	04-26-1994	
OG	US19	5,332,001		Eckles, et al.	07-20-1994	
OG	US20	5,369,373		Kester, et al.	01-31-1995	
OG	US21	5,672,424		Kellogg, et al.	11-05-1995	
OG	US22	5,583,785		Klaehammer	12-10-1996	
OG	US23	5,569,629		Quinn	12-31-1996	
OG	US24	5,621,183		Butler	04-15-1997	
OG	US25	5,644,133		Didomenico, et al.	07-01-1997	
OG	US26	5,693,872		Quinn	12-02-1997	
OG	US27	5,719,396		Jack, et al.	02-17-1998	
OG	US28	5,731,510		Jones, et al.	03-24-1998	
OG	US29	5,753,185		Mathews, et al.	05-19-1998	
OG	US30	5,831,287		Jack, et al.	11-03-1998	

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FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document Office <sup>2</sup>	Number <sup>3</sup>	Kind Code <sup>4</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
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Examiner Signature	Office Citation	Date Considered	Date Considered
Oliver Gahr		10/28/02	

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPR Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is complete.

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OG	P20	"Proposal/Quote for Unstated On-Road Emissions Measurement Systems Services" in response to Phase IV - RFQ #94-003, Remote Sensing Technologies, Inc. delivered to Department of Consumer Affairs, Bureau of Automotive Safety, Sacramento, California, September 1, 1996.
OG	P21	STEVEN H. CADLE, et al., "Measurement of Exhaust Particulate Matter Emissions from In-Use Light-Duty Motor Vehicles in the Denver, Colorado Area," Final Report, prepared for Coordinating Research Council, Atlanta, Georgia, 12/09/97, prepared by General Motors R&D Center, Michigan; 20 pages
OG	P22	STEVEN H. CADLE, et al., "Measurement of Exhaust Particulate Matter Emissions from In-Use Light-Duty Motor Vehicles in the Denver, Colorado Area," Final Report, prepared for Coordinating Research Council, Atlanta, Georgia, 3/24/98, "Appendix E: Unstated Denver Remote Sensing Observation of Smoking Vehicles."
OG	P23	ROBERT D. STEPHENS, et al., "Remote Sensing of Carbon Monoxide Emissions from On-Road Vehicles," Environmental Science Department, General Motors Research Laboratories, Michigan for presentation to Air and Waste Management Association, NC, May 1, 1990, 46 pages
OG	P24	"Description and Documentation for Interim Vehicle Clean Screening Credit Utility," Draft Report, United States Environmental Protection Agency, May 1996, 40 pages
OG	P25	DAVID S. E. PETERICK, "Ontario's Indoor, Controlled-Mode Remote Sensing UIM Prescreen Concept," Ministry of Transportation of Ontario, Copyright 1996 Society of Automotive Engineers, Inc. 9 pages
OG	P26	P. A. WALSH, et al., "Texas 1995 Remote Sensing Feasibility Study," Final Report, prepared for Texas Natural Resource Conservation Commission, Austin, Texas, 6/26/97, prepared by Desert Research Institute, Energy and Environmental Engineering Center, Reno, Nevada, 9 pages
OG	P27	"On Road Emissions Measurement System - Specifications," Bureau of Automotive Repair, August 30, 1999, Revision - J, 15 pages
OG	P28	CRAIG S. RENDAHL, "Further Analysis of Wisconsin's Remote Vehicle Emissions Sensing Feasibility Study - Quality Control Effects of Remote Vehicle Emissions Sensors," "Data Handling and Validation," Wisconsin's Remote Vehicle Emissions Screening Studies," Presented at the Air & Waste Management Annual Measurement of Toxics and Related Pollutants Conference, Research Triangle Park, North Carolina, 5/98, 34 pages.
OG	P29	JAMES D. PETERSON, et al., "Find and Fix the Polluters," Chemtech, January 1992, Copyright 1992 American Chemical Society, 7 pages.
OG	P30	RSD 1000 Operator's Manual (Preliminary), Remote Sensing Technologies, IFS No. 04919, June 1993, 66 pages.
OG	P31	RSD-1000 Remote Sensing Device Information Package to Mr. Wolf Klassen, Department of Natural Resources, Presented by Dennis L. Smith, February 24, 1993, 123 pages
OG	P32	ROBERT D. STEPHENS, et al., "An Experimental Evaluation of Remote Sensing-Based Hydrocarbon Measurements: A Comparison to RID Measurements," Journal of the Air & Waste Management Association, Volume 48, February 1998, pages 149-158
OG	P33	DONALD H. STEDMAN, "Automobile Carbon Monoxide Emission," Environmental Science & Technology, Volume 23, No. 2, 1989, pages 147-149.
OG	P34	MASAYUKI ADACHI, et al., "Automotive Emission Analyses Using FTIR Spectrophotometer," Published by the Society of Automotive Engineers, SAE 920273, pages 820-827
OG	P35	MICHAEL D. KOPLOW, et al., "Characterization of On-Road Vehicle NO Emissions by Means of a TILDAS Remote Sensing Instrument," Published by the Coordinating Research Council, Published for the 7th CRC On-Road Vehicle Emissions Workshop, March 11, 1997, pages 1-26.
OG	P36	SCOTT E. MCLAREN, et al., "Comparison of an Open Path UV and FTIR Spectrophotometer," Published by the Air & Waste Management Association, Paper Preprint, presented at the 48th Annual Meeting & Exhibition, Kansas City, Missouri, June 21-26, 1992, pages 1-10.
OG	P37	"Developing an Inspection/Maintenance Program for Alternatively-Fueled Vehicles", Third Intern Report Submitted to the California Bureau of Automotive Repair, Submitted by Radion Corporation, April 20, 1993, 147 pages.
OG	P38	IAN FREDERICK MCVEY, "Development of a Remote Sensor for Mobile Source Nitric Oxide", A Thesis Presented to the Faculty of Natural Sciences, Mathematics, and Engineering, University of Denver, November 1992, 111 pages.
OG	P39	S P. BEATON, et al., "Emission Characteristics of Mexico City Vehicles", Journal of the Air & Waste Management Association, Volume 42, No. 11, November 1992, pages 1424-1429
OG	P40	DOUGLAS R. LAWSON, et al., "Emissions from In-Use Motor Vehicles in Los Angeles: A Pilot Study of Remote Sensing and the Inspection and Maintenance Program," Journal of the Air & Waste Management Association, Volume 40, No. 8, August 1990, pages 1056-1105
OG	P41	YI ZHANG, et al., "Enhancement of Remote Sensing for Mobile Source Nitric Oxide", Journal of the Air & Waste Management Association, Volume 46, January 1996, pages 25-20.
OG	P42	DONALD H. STEDMAN, et al., "Evaluation of a Remote Sensor for Mobile Source CO Emissions", U.S. Environmental Protection Agency, CR-615778-01-0, Report No. EPA/600/4-90/032, January 1991, 60 pages.
OG	P43	JAMES BUTLER, et al., "Factors Affecting the NDIR Measurement of Exhaust Hydrocarbons," Published by the Coordinating Research Council, Published for the CRC 5 <sup>th</sup> On-Road Vehicle Emissions Workshop, 1995, 18 pages.
OG	P44	SCOTT E. MCLAREN, et al., "Flux Measurements Using Simultaneous Long Path Ultraviolet and Infrared Spectroscopy", Published by the Air & Waste Management Association, Published for Presentation at the 83 <sup>rd</sup> Annual Meeting & Exhibition, Pittsburgh, Pennsylvania, June 24-29, 1990, 7 pages.
OG	P45	GARY A. BISHOP, et al., "Infrared Emission and Remote Sensing", Journal of the Air & Waste Management Association, Volume 42, No. 5, May 1992, pages 695-697.

RECEIVED

Technology Center 2600

JUL 16 2002

OG	P46	HAKAN AXELSSON, et al., "Measurement of Aromatic Hydrocarbons with the DOAS Technique", <i>Applied Spectroscopy</i> , Volume 49, No. 9, 1995, pages 1254-1260.	
OG	P47	GARY A. BISHOP, et al., "Method Comparisons of Vehicle Emissions Measurements in the Fort McHenry and Tuscarora Mountain Tunnels", <i>Atmospheric Environment</i> , Volume 30, No. 12, 1996, pages 2307-2316.	
OG	P48	DONALD H. STEDMAN, et al., "NOx Data by Remote Sensing", Published by the Coordinating Research Council, Published for the 5th CRC On-Road Vehicle Emissions Workshop, April 3-5, 1992, 16 pages.	
OG	P49	DONALD H. STEDMAN, et al., "On-Road Carbon Monoxide and Hydrocarbon Remote Sensing in the Chicago Area", Final Report Prepared by University of Denver Chemistry Department, Prepared for Illinois Department of Energy and Natural Resources, Office of Research and Planning, Illinois Contract AQ 40, Project 91/122, Report No. ILENR/RE-AQ-91/14, October 1991, pages 1-70.	
OG	P50	GARY A. BISHOP, et al., "On-Road Carbon Monoxide Emission Measurement Comparisons for the 1988-1989 Colorado Oxy-Fuels Program", <i>Environmental Science &amp; Technology</i> , Volume 24, No. 6, 1990, pages 843-847.	
OG	P51	DONALD H. STEDMAN, et al., "On-Road CO Remote Sensing in the Los Angeles Basin", Final Report Prepared for the Research Division, California Air Resources Board, Submitted by University of Denver Chemistry Department, August 1991, Contract No. A832-169, 70 pages.	
OG	P52	SCOTT MCCLAREN, "Open Path Spectrometry for Atmospheric Monitoring", A Dissertation Presented to the Faculty of Natural Sciences, Mathematics and Engineering, November 1995, 170 pages.	
JUL 2002 SEARCHED INDEXED SERIALIZED FILED FEB 24 2003 RECEIVED JUL 16 2002 Technology Center 2600			
OG	P53	CAROL E. LYONS, et al., "Remote Sensing Enhanced Motor Vehicle Emissions Control for Pollution Reduction in the Chicago Metropolitan Area: Siting and Issue Analysis", Final Report Prepared by University of Denver Atmospheric Science Center, Prepared for Illinois Department of Energy and Natural Resources, Office of Research and Planning, Illinois Contract AQ 30, Project 91/115, Report No. ILENR/RE-AQ-91/15, October 1991, pages 1-65.	
OG	P54	PETER JOHN POPP, "Remote Sensing of Nitric Oxide Emissions from Planes, Trains and Automobiles", A Dissertation Presented to the Faculty of Natural Sciences, Mathematics and Engineering, August 1999, 170 pages.	
OG	P55	BRETT C. SINGER, et al., "Scaling of Infrared Remote Sensor Hydrocarbon Measurements for Motor Vehicle Emission Inventory Calculations", <i>Environmental Science &amp; Technology</i> , Volume 32, No. 21, 1998, pages 3241-3245.	
OG	P56	LUCIAN W. CHANEY, "The Remote Measurement of Traffic Generated Carbon Monoxide", <i>Journal of the Air Pollution Control Association</i> , Volume 33, No. 3, March 1983, pages 220-222.	
OG	P57	JOSE LUIS JIMENEZ-PALACIOS, "Understanding and Quantifying Motor Vehicle Emissions with Vehicle Specific Power and TILDAS Remote Sensing", A Dissertation Presented to the Department of Mechanical Engineering, February 1999, 360 pages.	
OG	P58	"Vehicle Inspection Instrumentation", Published by the Lockheed Missiles and Space co., Inc., Report No. ARB-R-643-73-26, June 30, 1973, 99 pages	
OG	P59	JOHN E. SIGSBY, JR., et al., "Volatile Organic Compound Emissions from 46 In-Use Passenger Cars", <i>Environmental Science &amp; Technology</i> , Volume 21, No. 5, 1987, pages 466-475.	
OG	P60	YI ZHANG, et al., "Worldwide On-Road Vehicle Exhaust Emissions Study by Remote Sensing", <i>Environmental Science &amp; Technology</i> , Volume 29, No. 6, 1995, pages 2286-2294.	

Examiner  
Signature

Otilie Calhoun

Date  
Considered

10/28/03

<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	09/704,585
Filing Date	November 3, 2000
First Named Inventor	John DIDOMENICO
Group Art Unit	2632-2878
Examiner Name	Unknown
Attorney Docket Number	23439-034-402

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
OG	P1	Technical Proposal - "Vehicle Inspection Instrumentation"; submitted to California Air Resources Board; September 1, 1971, Lockheed Palo Alto Research Laboratory, Lockheed Missiles & Space Company - A Group Division of Lockheed Aircraft Corporation, Palo Alto, California	
OG	P2	HOSHIZAKI, et al., Final Report - "Vehicle Inspection Instrumentation"; submitted to California Air Resources Board, June 1973, Lockheed Palo Alto Research Laboratory, Lockheed Missiles & Space Company - A Group Division of Lockheed Aircraft Corporation, Palo Alto, California	
OG	P3	<a href="http://www.epa.gov/otaq/15-remote.htm">http://www.epa.gov/otaq/15-remote.htm</a> "Remote Sensing: A Supplemental Tool for Vehicle Emission Control," August 1993, EPA 400-F-92-017, Fact Sheet OMS-15, 4 pages	
OG	P4	PAUL STOCKWELL, "Tunable Diode Laser Systems Break New Ground in Water Vapour Analysis," IMA Ltd., Unit Newall Hall Park, Cleve, West Yorkshire, United Kingdom; [undated], 8 pages	RECEIVED JUL 16 2002
OG	P5	MARK G. ALLEN, "Diode Laser Absorption Sensors for Gas Dynamic and Combustion Flows," Copyright 1988 Measurement Science and Technology 9: 81 pages	Technology Center 2600
OG	P6	KERRY L. SWAYNE, "Infrared Remote Sensing of On-Road Motor Vehicle Emissions in Washington," March, 1998, Air Quality Program, Washington State Department of Ecology, Washington, Publication #92-204, 29 pages	
OG	P7	GARY A. BISHOP, et al., "Oxygenated Fuels, A Remote Sensing Evaluation," SAE Technical Paper Series; Copyright 1989 Society of Automotive Engineers, Inc., 7 pages	
OG	P8	ROBERT D. STEPHENS, "Remote Sensing Data and a Potential Model of Vehicle Exhaust Emissions," November 1994, Vol. 44, Journal of Air & Waste Management Association, pp. 1284-1292	
OG	P9	"An Analysis of On-Road Remote Sensing as a Tool for Automobile Emissions Control," Final Report Prepared by University of Denver Chemistry Department, Colorado, March 1990, 174 pages; prepared for Illinois Department of Energy and Natural Resources	
OG	P10	ROBERT D. STEPHENS, et al., "Remote Sensing Measurements of In-Use Vehicle Carbon Monoxide and Hydrocarbon Exhaust Emissions," Environmental Science Department, Michigan, to be presented to Society of Automotive Engineers Government/Industry Meeting, Washington, D.C., May 15, 1991, 9 pages	
OG	P11	THOMAS C. AUSTIN, et al., "An Evaluation of 'Remote Sensing' for the Measurement of Vehicle Emissions," prepared for The California Air Resources Board and The California WRI Review Committee, August 28, 1990, 30 pages; prepared by Sierra Research, Inc., California	
OG	P12	ROBERT D. STEPHENS, et al., "Remote Sensing Measurements of Carbon Monoxide Emissions from On-Road Vehicles," Copyright January 1991, Air & Waste Management Association, Volume 42, No. 1, pp. 39-46	
OG	P13	DONALD H. STEDMAN, et al., "Remote Sensing of On-Road Vehicle Emissions," Final Report to Coordinating Research Council, The University of Denver, January 8, 1992, 21 pages	
OG	P14	PETER POPP, et al., "Development of a High-Speed Ultraviolet Spectrophotometer Capable of Real-Time NO and Aromatic Hydrocarbon Detection in Vehicle Exhaust," Department of Chemistry, University of Denver, Colorado, Prepared for Proceedings of the "CRC On-Road Vehicle Emissions Workshop, San Diego, California, April 9-11, 1997," 10 pages	
OG	P15	JOHN DIDOMENICO, et al., "Preliminary Results from Cold Start Sensor Testing," Presented to 7 <sup>th</sup> CRC On-Road Vehicle Emissions Workshop, San Diego, California April 9-11, 1997, 1 page	
OG	P16	GARY A. BISHOP, et al., "Enhancements of Remote Sensing for Vehicle Emissions in Tunnels," Air & Waste Management Association, Vol. 44, February 1994, pp. 169-175	
OG	P17	PAUL LEONARD GUYENTHER, "Contributions to On-Road Remote Sensing of Automobile Exhaust," A Thesis Presented to the Faculty of Natural Sciences, Mathematics, and Engineering, University of Denver, June 1992, 95 pages	
OG	P18	DONALD H. STEDMAN, et al., "On-Road Remote Sensing of CO and HC Emissions in California," Prepared for Research Division, California Air Resources Board, Sacramento, CA, submitted by University of Denver Chemistry Department, February 1994, 136 pages	
OG	P19	"Unstaffed On-Road Emissions Measurement Systems Services," Prepared by Parsons Engineering Science, Inc., Pasadena, California, September 1995	

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE										ATTY. DOCKET NO.: 47382.000110	SERIAL NO.: 04/704,565 Unassigned: Cont. of 09/520,165
LIST OF MATERIALS CITED BY APPLICANT  (Use several sheets if necessary)												INVENTOR'S NAME: DIDOMENICO et al.	EXAMINER: Not Assigned
												FILING DATE: November 3, 2000	GROUP: 376-2878

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME		CLASS	SUBCLASS	FILING DATE
OG	A	2	9	3	0	8	9	3	03/1960	Lane, et al.				
OG	B	3	1	4	3	6	4	8	08/04/64	Bradley, et al.				
OG	C	3	1	7	1	0	2	7	02/1965	Wallack				
OG	D	3	5	1	7	1	9	0	06/1970	Astheimer				
OG	E	3	5	9	3	0	2	3	07/1971	Dodson, et al.				
OG	F	3	6	3	0	0	7	2	12/1971	Traver				
OG	G	3	6	9	6	2	4	7	10/1972	McIntosh, et al.				
OG	H	3	7	6	1	7	1	5	09/1973	Menzies				
OG	I	3	7	6	1	7	2	4	09/1973	Dennis				
OG	J	3	7	6	6	3	8	0	10/1973	Menzies				
OG	K	3	8	4	1	7	6	3	10/1974	Lewis				
OG	L	3	8	4	9	0	0	5	11/1974	Girard, et al.				
OG	M	3	8	9	1	8	4	8	06/1975	Fletcher, et al.				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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## OTHER MATERIALS (Including Author, Title, Date, Pertinent Pages, Etc.)

OG	R	Charley, Lucian W., "The Remote Measurement of Traffic Generated Carbon Monoxide", Journal of the Air Pollution Control Association, Vol. 33, No. 3, March 1983.
OG	S	Peterson, James E., and Stedman, Donald H., "Find and Fix the Polluters", American Chemical Society, CHEMTECH, Jan. 1992

EXAMINER *Oliver Cole* DATE CONSIDERED

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		(Use several sheets if necessary)							FILING DATE: November 3, 2000	GROUP: <del>200</del> 2878		
<b>U.S. PATENT DOCUMENTS</b>												
*EXAMINER INITIAL		DOCUMENT NUMBER				DATE	NAME			CLASS	SUBCLASS	FILING DATE
OG	A1	3	9	0	8	1	6	7	09/1975	Hadden, et al.		
OG	B1	3	9	3	1	4	6	2	01/1976	Exton		
OG	C1	3	9	5	7	3	7	2	05/1976	Cross, et al.		
OG	D1	3	9	5	8	1	2	2	05/1976	Cross, et al.		
OG	E1	3	9	7	6	8	8	4	08/1976	Acton, et al.		
OG	F1	4	1	3	5	0	9	2	01/1979	Milly		
OG	G1	4	1	6	0	3	7	3	07/1979	Á s, et al.		
OG	H1	4	2	0	4	1	2	1	05/1980	Milly		
OG	I1	4	2	0	4	7	6	8	05/1980	N'Guyen		
OG	J1	4	3	2	3	7	7	7	04/1982	Baskins		
OG	K1	4	3	9	0	7	8	5	06/1983	Faulhaber, et al.		
OG	L1	4	4	2	0	6	8	7	12/1983	Martinez, et al.		
OG	M1	4	4	2	6	6	4	0	01/1984	Becconsali, et al.		
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	N1											
	O1											
	P1											
	Q1											
<b>OTHER MATERIALS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>												
R1	Bishop, Gary A., and Stedman, Donald H., "Analytical Approach - IR Long-Path Photometry: A Remote Sensing Tool for Automotive Emissions; Analytical Chemistry, Vol. 61, No. 10, 617A, May 15, 1989,											
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		EXAMINER: Not Assigned							
		GROUP: 2776 2813							

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE
OG	A2	4	4	7	7	1	9	0	10/1984	Dickinson, et al..			
OG	B2	4	4	8	9	2	3	9	12/1984	Grani, et al.			
OG	C2	4	4	9	0	0	4	3	12/1984	Cramp			
OG	D2	4	4	9	0	6	1	3	12/1984	Brame			
OG	E2	4	4	9	2	8	6	2	01/1985	Grynberg, et al.			
OG	F2	4	4	9	6	8	3	9	01/1985	Berstein, et al.			
OG	G2	4	5	1	6	8	5	8	05/1985	Gelbwachs			
OG	H2	4	5	5	3	0	3	2	11/1985	Borken, et al.			
OG	I2	4	7	0	7	6	0		11/1987	Jantinen, et al.			
OG	J2	4	7	1	0	6	3	0	12/1987	Kuppenheimer, et al.			
OG	K2	4	7	4	6	2	1	8	05/1988	Lord			
OG	L2	4	7	7	1	1	7	6	09/1988	Krempl, et al.			
OG	M2	4	7	9	5	2	5	3	01/1989	Hunt, et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
													YES
													NO
	N2												
	O2												
	P2												
	Q2												

## OTHER MATERIALS (Including Author, Title, Date, Pertinent Pages, Etc.)

R2	
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EXAMINER	Olive Gahr	DATE CONSIDERED	10/28/03
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE</b>									
<b>LIST OF MATERIALS CITED BY APPLICANT</b>									
<i>(Use several sheets if necessary)</i>									
<b>ATTY. DOCKET NO.: 47382.000101</b>									
<b>INVENTOR'S NAME: DIDOMENICO et al.</b>									
<b>FILING DATE: November 3, 2000</b>									
<b>SERIAL NO.: 06/704,565 Unassigned / Cont. of 09/520,165</b>									
<b>EXAMINER: Not Assigned</b>									
<b>GROUP: 2796 2370</b>									

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME		CLASS	SUBCLASS	FILING DATE
OG	A3	4	7	9	8	4	6	4	01/1989	Bostrom			
OG	B3	4	8	1	0	8	8	4	03/1989	Carlson			
OG	C3	4	8	7	5	0	8	4	10/1989	Tohyama			
OG	D3	4	9	0	2	8	8	9	02/1990	Sodi			
OG	E3	4	9	2	4	0	9	5	05/1990	Swanson, Jr.			
OG	F3	5	0	4	1	7	2	3	08/1991	Ishida, et al.			
OG	G3	5	0	5	5	6	8	5	10/1991	Iwasawa			
OG	H3	5	0	5	5	6	9	7	10/1991	Manoogian, et al.			
OG	I3	5	1	5	7	2	5	8	/1992	Gluck, et al.			
OG	J3	5	1	8	9	6	7		02/1993	Yry			
OG	K3	5	2	1	0	7	0	2	05/1993	Bishop, et al.			
OG	L3	5	2	1	0	7	6	5	05/1993	Cheney, et al.			
OG	M3	5	2	4	6	6	6	8	09/1993	Busch, et al.			

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
N3								
O3								
P3								
Q3								

**OTHER MATERIALS (Including Author, Title, Date, Pertinent Pages, Etc.)**

R3		DATE CONSIDERED
S3		

EXAMINER	Olil. A. G.	DATE CONSIDERED
		10/18/03

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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO.: 47382.000110	SERIAL NO.: 05/394,565 Unassigned: Conf. of 09/520,165
		LIST OF MATERIALS CITED BY APPLICANT  (Use several sheets if necessary)							INVENTOR'S NAME: DIDOMENICO et al.	EXAMINER: Not Assigned
									FILING DATE: November 3 2000	GROUP: 2236 2378

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE
OG	A4	5	2	5	2	8	2	8	10/1993	Kert, et al.			
OG	B4	5	2	9	4	7	9	6	03/1994	Fee			
OG	C4	5	3	1	9	1	9	9	06/1994	Bishop, et al.			
OG	D4	5	3	2	5	3	8	0	06/1994	Berg, et al.			
OG	E4	5	3	2	5	3	9	3	06/1994	Nighan, et al.			
OG	F4	5	3	2	7	3	5	6	07/1994	Dall'Era, et al.			
OG	G4	5	3	4	3	j0	4	3	08/1994	Johnson			
OG	H4	5	3	7	1	3	6	7	12/1994	DiDomenico, et al.			
OG	I4	5	3	7	3	1	6	0	12/1994	Taylor			
OG	J4	5	4	0	1	9	6	7	03/1995	Bishop, et al.			
OG	K4	5	4	1	8	3	6	6	05/1995	Jack, et al.			
OG	L4	5	4	2	4	5	4	3	06/1995	Domrowski, et al.			
OG	M4	5	4	5	1	7	8	7	09/1995	Taylor			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	N4							
	O4							
	P4							
	Q4							

## OTHER MATERIALS (Including Author, Title, Date, Pertinent Pages, Etc.)

R4	
S4	
EXAMINER: <i>Phil Calo</i>	DATE CONSIDERED: 10/18/03
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO.: 47382.000110	SERIAL NO.: 17041865 Unassigned; Cont. of 09/520,165
LIST OF MATERIALS CITED BY APPLICANT  (Use several sheets if necessary)									INVENTOR'S NAME: DIDOMENICO et al.	EXAMINER: Not Assigned
									FILING DATE: November 3, 2000	GROUP: 2946 2878

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE
OG	A5	5	4	8	9	7	7	7	02/1996	Bishop, et al.		
OG	B5	5	4	9	8	8	7	2	03/1996	Bishop, et al.		
OG	C5	5	5	9	1	9	7	5	01/1997	Jack, et al.		
OG	D5	5	7	2	6	4	5	0	03/1998	Bahan, et al.		
OG	E5	4	2	0	4	7	6	8	05/1980	N'Guyen		
	F5											
	G5											
	H5											
	I5											
	J5											
	K5											
	L5											
	M5											

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	N5							
	O5							
	P5							
	Q5							

## OTHER MATERIALS (Including Author, Title, Date, Pertinent Pages, Etc.)

R5	
S5	

EXAMINER: <i>Mike Gah</i>	DATE CONSIDERED: <i>10/28/03</i>
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